(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 25 November 2004 (25.11.2004)

PCT

(10) International Publication Number WO 2004/100681 A1

- (51) International Patent Classification7:
- A23L 1/237
- (21) International Application Number:

PCT/KR2004/000410

- (22) International Filing Date: 27 February 2004 (27.02.2004)
- (25) Filing Language:

Korear

(26) Publication Language:

English

(30) Priority Data:

10-2003-0031616

19 May 2003 (19.05.2003) KR

- (71) Applicant and
- (72) Inventor: CHO, Gun Sik [KR/KR]; 101-1405 Dongbaek Apt., Sanjeong-dong, Mokpo, Jeonnam 530-210 (KR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KIM, Gye Yeop [KR/KR]; 102-1004 Illo Apt., Ilgok-dong, Buk-gu, Gwangju 500-160 (KR). HAM, Kyung Sik [KR/KR]; 103-802 Hyundai Samhwan Apt., 1096, Pungam-dong, Seo-gu, Gwangju 502-156 (KR). PARK, Hyun Jin [KR/KR]; 493-1 Banghwa-dong, Gangseo-gu, Seoul 157-220 (KR). KIM, In Cheol [KR/KR]; 105-1105 Anam Apt., Jinwal-dong, Nam-gu, Gwangju 503-330 (KR).

- (74) Agent: LEE, Cheo Young; 4th Floor, Kyoung Sung Bldg., 641, Yeoksam-dong, Gangnam-gu, Seoul 135-080 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

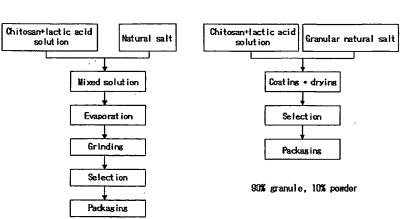
with international search report

[Continued on next page]

(54) Title: METHOD FOR PRODUCING A CHITOSAN CONTAINING SALT HAVING A FUNCTION OF LOWERING BLOOD PRESSURE

(Prior Art)

<Present Invention>



70% granule, 30% powder

(57) Abstract: The present invention relates to a method for producing a chitosancontaining salt having the function of lowering blood pressure. The method comprises the steps of: (a) dissolving an acid-soluble chitosan in organic acid, or dissolving a water-soluble chitosan derivative in water, to prepare a chitosan solution; (b) spraying the chitosan solution on salt particles to bind the chitosan to the salt particles; and (c) drying the chitosan-bound salt particles. According to the present invention, the chitosan or its derivative is bound to the salt particles by spraying or mixing such that the chitosan-containing salt can be produced without performing a recrystallizing step. Thus, the production cost of the chitosan-containing salt can be significantly decreased.